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6/34/1 (Item 1 from file: 351)

009374409 **Image available**

WPI Acc No: 1993-067887/ 199309

High strength aromatic polyamide film prodn. - by casting
from amide solvent soln. with ratio of final to original dimension held
at 0.8 or above during coagulation and drying

Patent Assignee: HOECHST AG (FARH)

Inventor: BENNETT C; ROTH W

Number of Countries: 019 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4127603	A1	19930225	DE 4127603	A	19910821	199309 B
WO 9304110	A1	19930304	WO 92EP1880	A	19920818	199311
EP 599944	A1	19940608	EP 92917881	A	19920818	199422
			WO 92EP1880	A	19920818	
JP 6510311	W	19941117	WO 92EP1880	A	19920818	199505
			JP 93504108	A	19920818	

Priority Applications (No Type Date): DE 4127603 A 19910821

Cited Patents: DE 3218017; EP 303949; EP 91778

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

DE 4127603 A1 9 C08L-077/10

WO 9304110 A1 G 27 C08J-005/18

Designated States (National): CA JP KR US

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL SE

EP 599944 A1 G C08J-005/18 Based on patent WO 9304110

Designated States (Regional): DE NL

JP 6510311 W 11 C08J-005/18 Based on patent WO 9304110

Abstract (Basic): DE 4127603 A

The novel feature in the coagulative soln. casting of aromatic polyamide films contg. units of formulae (I)-(V) is that each of the sequential steps of (i) predrying by removing part (pref. 50-99%) of the amide solvent from the cast film, (ii) passing the film through a coagulant and (iii) final drying by removing coagulant and remaining solvent is effected with the dimensional constant D (= ratio final, post-drying dimension:original casting dimension) held at 0.9 or above (pref. 0.9-2.0) in the longitudinal and/or transverse direction Mols (I)+(II) = mols (III) + (IV) + (V); mols (II) = 0-50% mols (I)+(II); no. of diamine components (III)+(IV)+(V) per mol = 2 or more; no. of diamine components (IV)+(V) = above 0, Ar and Ar2 = divalent aromatic (arylene) residues paracoupled (or, in the case of annellated benzene rings, with coaxial or parallel coupling) and opt. substd. by 1 or 2 inert gps. such as lower alkyl, alkoxy or halogen; Ar1 = divalent aromatic (arylene) residues metacoupled (or correspondingly coupled in the case of annellated benzene rings) and opt. substd. as per Ar and Ar2; Ar3 = a biphenylene gp. of formula (VI) or as per Ar1; Ar4 = p-phenylene substd. by R2; Ar5 = as per Ar4 or un-phenylene substd. by R3; Z = -O-, -S-, -CH2-, -O.pC6H4.O-, -O.pC6H4.pC6H4.O-, -C(Me)2- or

-CONH-; and R and R1-3 = H, lower alkyl or alkoxy, or halogen.
USE/ADVANTAGE - Use of the film is claimed as heat-resistant carriers for magnetic recording media, heat-resistant electrical insulation or as printed circuit board substrates. The films have strength and E. modulus some 30 (or even 50)% higher than those obtd. by the process of EP-303949 in which D is only 0.7-0.8.

Dwg.0/0

Derwent Class: A23; A32; A85; T03; V04; X12
International Patent Class (Main): C08J-005/18; C08L-077/10
International Patent Class (Additional): B29C-041/12; C08G-069/32;
G11B-005/704; H01B-003/30; H05K-001/03

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☐ 2.

6/34/2 (Item 2 from file: 345)

10984483

Basic Patent (No,Kind,Date): DE 4127603 A1 930225

PATENT FAMILY:

GERMANY (DE)

Patent (No,Kind,Date): DE 4127603 A1 930225

VERFAHREN ZUR HERSTELLUNG VON HOCHFESTEN FOLIEN AUS AROMATISCHEN
COPOLYAMIDEN UND DEREN VERWENDUNG (German)

Patent Assignee: HOECHST AG (DE)

Author (Inventor): BENNETT CYNTHIA DR (DE); ROTH WERNER DR (DE)

Priority (No,Kind,Date): DE 4127603 A 910821

Applic (No,Kind,Date): DE 4127603 A 910821

IPC: * C08L-077/10; C08J-005/18; G11B-005/704; H01B-003/30;
H05K-001/03; B01D-071/56; B41M-005/36; C09J-007/00

CA Abstract No: ; 119(22)227194R

Derwent WPI Acc No: ; C 93-067887

Language of Document: German

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 599944 A1 940608

PROCESS FOR MANUFACTURING HIGH-RESISTANCE FOILS MADE OF AROMATIC
COPOLYAMIDES AND USE OF THE SAME. (English; French; German)

Patent Assignee: HOECHST AG (DE)

Author (Inventor): BENNETT CYNTHIA (DE); ROTH WERNER (DE)

Priority (No,Kind,Date): DE 4127603 A 910821; WO 92EP1880 W
920818

Applic (No,Kind,Date): EP 92917881 A 920818

Designated States: (National) DE; NL

IPC: * C08J-005/18

CA Abstract No: * 119(22)227194R

Derwent WPI Acc No: * C 93-067887

Language of Document: German

JAPAN (JP)

Patent (No,Kind,Date): JP 6510311 T2 941117

Priority (No,Kind,Date): DE 4127603 A 910821; WO 92EP1880 W
920818

Applic (No,Kind,Date): JP 92504108 A 920818

IPC: * C08J-005/18; B29C-041/12; C08G-069/32

CA Abstract No: * 119(22)227194R

Derwent WPI Acc No: * C 93-067887

Language of Document: Japanese

MEXICO (MX)

Patent (No,Kind,Date): MX 9204834 A1 930506

PROCEDIMIENTO PARA LA ELABORACION DE HOJAS ALTAMENTE RESISTENTES DE

COPOLIAMIDAS AROMATICAS Y SU APLICACION (Spanish)
Patent Assignee: HOECHST AG (DE)
Author (Inventor): BENNETT CYNTHIA (DE); ROTH WERNER (DE)
Priority (No,Kind,Date): DE 4127603 A 910821
Applic (No,Kind,Date): MX 9204834 A 920820
IPC: * H01B-003/38
Derwent WPI Acc No: * C 93-067887
Language of Document: Spanish

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)
Patent (No,Kind,Date): WO 9304110 A1 930304
PROCESS FOR MANUFACTURING HIGH-RESISTANCE FOILS MADE OF AROMATIC
COPOLYAMIDES AND USE OF THE SAME (English)
Patent Assignee: HOECHST AG (DE)
Author (Inventor): BENNETT CYNTHIA (DE); ROTH WERNER (DE)
Priority (No,Kind,Date): DE 4127603 A 910821
Applic (No,Kind,Date): WO 92EP1880 A 920818
Designated States: (National) CA; JP; KR; US (Regional) AT; BE; CH;
DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; SE
Filing Details: WO 100000 With international search report
IPC: * C08J-005/18
Language of Document: German

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